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Title	Stable carbon and nitrogen isotopic composition of fine mode aerosols (PM2.5) over the Bay of Bengal: impact of continental sources
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Supplementary Information

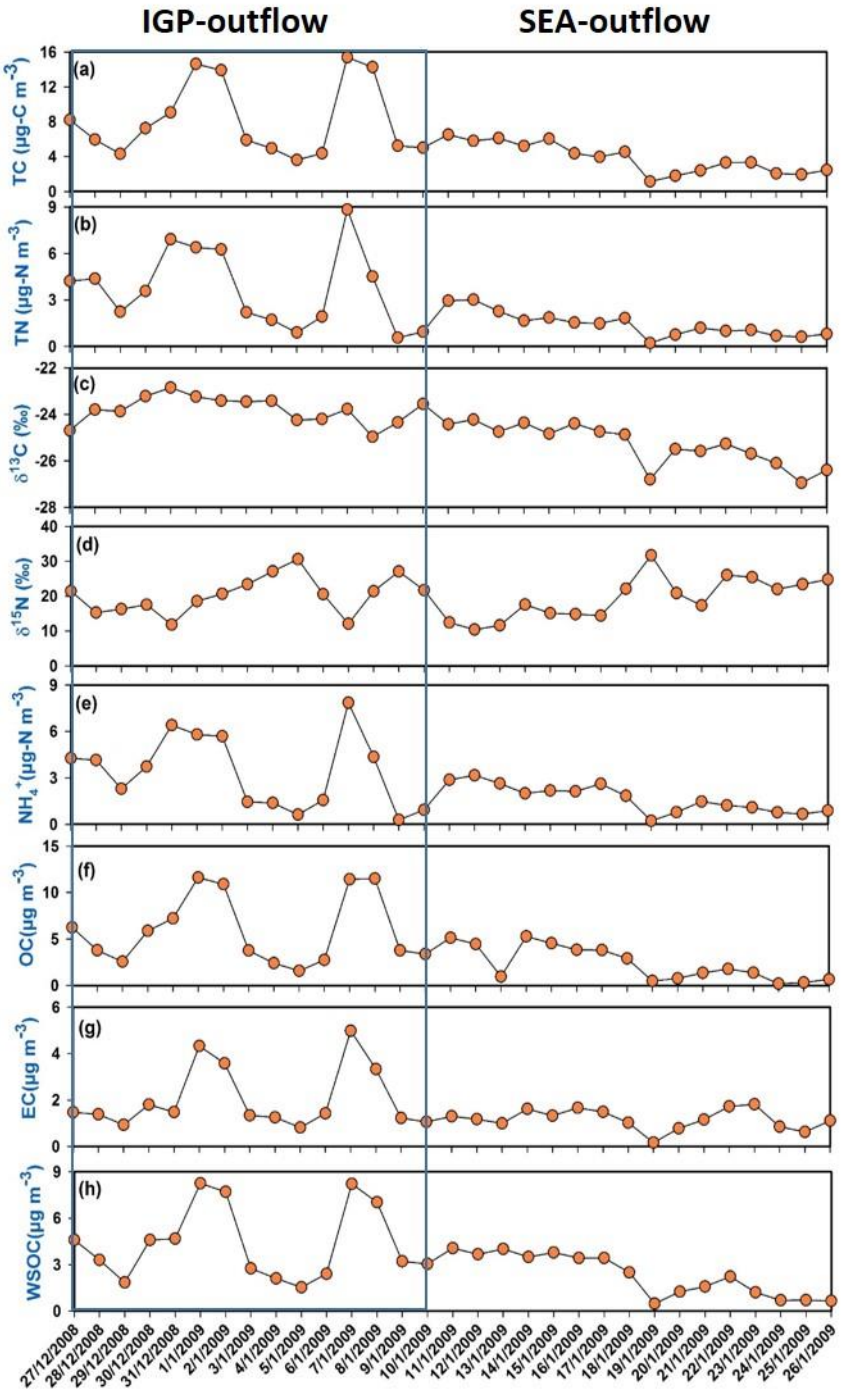


Fig.S1. Temporal variability of total carbon and nitrogen along with their stable isotopic analyses ($\delta^{13}C$ and $\delta^{15}N$, respectively), and other supporting parameter (NH_4^+, OC, EC and WSOC) in $PM_{2.5}$ samples collected over the Bay of Bengal during January'09 cruise.

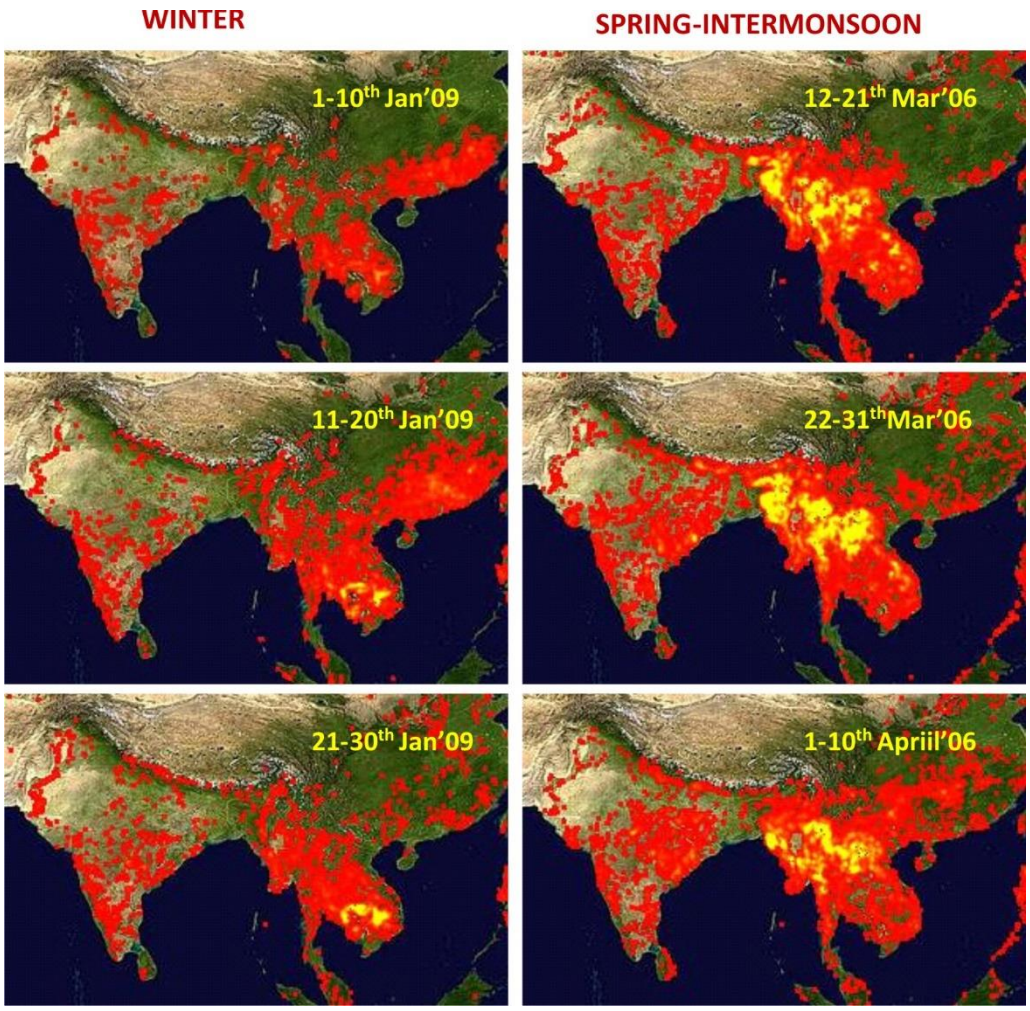


Fig. S2. MODIS satellite derived fire images for the cruise conducted in the Bay of Bengal during January'09 (this study) and March-April'06 (Agnihotri et al., 2011).

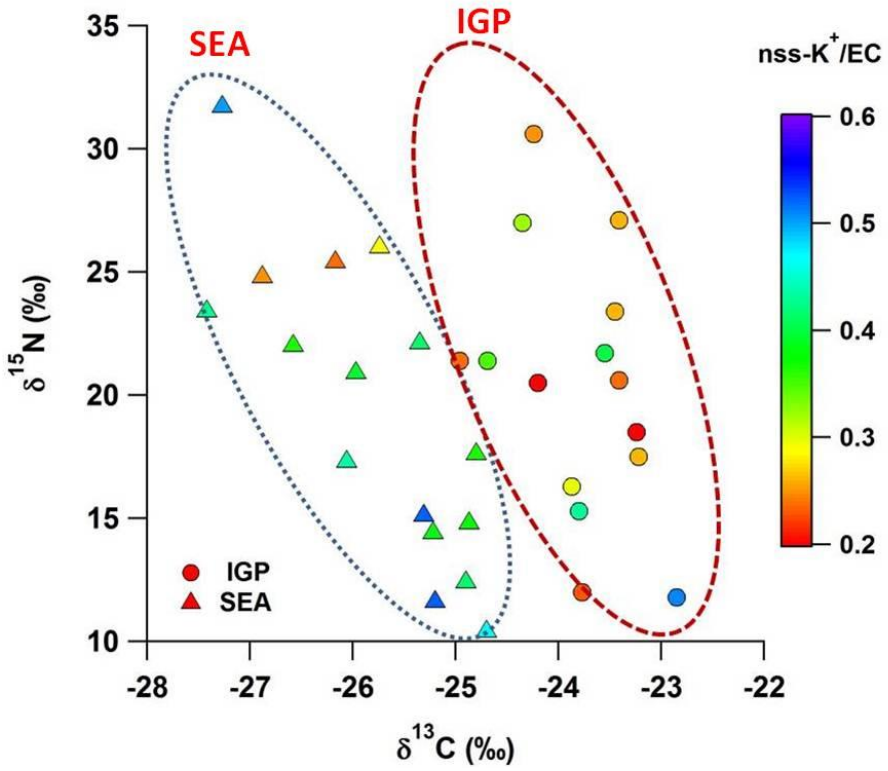


Fig.S3. Cross plot between stable isotopic composition of $\delta^{13}C$ versus $\delta^{15}N$ for the $PM_{2.5}$ samples collected over the Bay of Bengal under two different wind regimes (a) Indo-Gangetic Plain-outflow (IGP: closed circles; 27 December, 2008 – 10 January, 2009), and (b) Southeast Asian outflow (SEA: closed triangles; 11 – 28 January, 2009). Color scale indicates the corresponding the nss-K^+/EC ratio for each sample over the Bay of Bengal.

Table S1. Uncertainty analyses in the slopes of regression when comparison is made between IGP- and SEA-.

Regression	IGP-outflow	SEA-outflow
TN vs. $\delta^{15}N$	m = -1.57±0.11; b = 25.15 ± 0.53	m = -6.65±0.41; b = 28.06 ± 0.67
TC vs. $\delta^{13}C$	m = 0.01±0.07; b = -23.85 ± 0.68	m = 0.42±0.19; b = -26.9 ± 0.79
$\delta^{13}C$ vs nss-K^{+}	m = 0.42±1.17;b = -24.0±0.71	m = 4.73±2.05; b = -27.4 ± 0.98
$\delta^{13}C$ vs WSOC	m = 0.027±0.134;b = -23.9±0.7	m = 0.59±0.24; b = -26.7 ± 0.7
$\delta^{13}C$ vs $\delta^{15}N$	m = -23.4±32.4; b =-537±770	m = -8.7±4.1; b = -200±103